

BT-382

Self-Activated Organophilic Bentonite

Rheological Additive

for Medium to Low Polarity Systems

Technical Data Sheet

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1. Product Description

BT-382 is an improved self-activated organophilic bentonite rheological additive supplied as a light yellow free-flowing powder.

Developed based on BT-185 technology, it combines strong thickening efficiency, excellent anti-settling and anti-sag performance with superior dispersion and broad applicability. BT-382 does not require polar activators or pre-gel preparation, making it easy to incorporate into various formulations.

2. Typical Physical & Chemical Properties

Property	Specification
Appearance	Light yellow free-flowing powder
Volatile content (105°C, 2h)	≤ 3.5 %
Particle size (<76 μm, 200 mesh)	≥ 95 %
Viscosity (5.0% gel, 200# solvent, 25°C)	≥ 1000 mPa·s
Fineness (Hegman gauge, unground)	≤ 60 μm
Loss on ignition (850 – 900° C)	≤ 40 %

The above values represent typical test results and do not constitute a guaranteed specification.

3. Key Features

- Self-activated – no polar activator required
- No pre-gel preparation needed
- Strong viscosity development
- Excellent anti-settling and anti-sag performance

- Ultra-dispersion capability
- Broad compatibility with medium to low polarity solvent systems
- Easy processing and stable rheological control

4. Recommended Solvent Systems

BT-382 performs well in:

- Medium polarity solvent systems
- Low polarity solvent systems
- Aromatic hydrocarbon systems
- Resin-based coating formulations

5. Applications

Widely used in:

- High-grade furniture coatings
- Printing inks
- Cosmetic formulations
- Sealants
- Nano-composite materials
- Light-colored and decorative coatings

Provides:

- Stable flocculated structure
- Controlled sag resistance
- Improved suspension stability
- Enhanced processing efficiency

6. Incorporation Method

- Can be added directly at any production stage
- High-speed dispersion is recommended
- No polar activator required

The optimal dosage should be determined through laboratory testing according to formulation requirements.

7. Comparable International Grades

Comparable to:

- BENTONE® SD-3

8. Packaging

- Double-layer kraft paper bag with PE inner liner
- Valve paper bag available
- Net weight: 25 ± 0.25 kg
- Custom packaging available upon request

9. Storage & Shelf Life

- Store in dry and ventilated conditions
- Recommended storage temperature: 0–30°C
- Keep container tightly sealed
- Shelf life: 24 months

10. Safety Information

Please refer to the Safety Data Sheet (SDS) before handling.

Avoid dust inhalation and use appropriate personal protective equipment.